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## APR 2 4 2006

PTC/SB/97 (09-03)
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This collection of information is required by \$7 CFR 1.8. The information is required to obtain or retain a banefit by the public which is to file (and by the USPTO to process) an application. Confidentially is governed by \$5 U.S.C. 122 and \$7 CFR 1.14. This collection is estimated to take 1.8 minutes to complete, including sathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

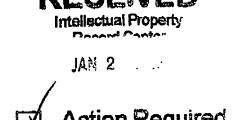


# United States Patent and Trademai COFFICE

UNITED STATES DEPARTMENT OF COMMERCI United States Patent and Trademark Office Advers COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandra Vircinia 22513-1450

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/713.535	11/12/2003	Alan Martin Allgoior	PI1615USNA	9320
43693 7590 01/24/2006			EXAMINER	
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2801 CENTERV	E FALLS CENTRE/10 VILLE ROAD	32	ART UNIT	PAPER NUMBER
WILMINGTON	, DE 19808		1626	
		GFT.	DATE MAILED: 01/24/2006	\$
		NOTED		
		ED		

Please find below and/or attached an Office communication concerning this application or proceeding.



	$\sim$	Application No.	Applicant(s)		
Office Action Comments		10/713,535	ALLGEIER, ALAN MARTIN		
	Office Action Summary	Examiner	Art Unit		
		EBENEZER SACKEY	1626		
Period fo	– The MAILING DATE of this communication a r Reply	opears on the cover sheet with the c	orrespondence address		
WHIC - Exter after - If NO - Fallu Any (	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING I  salons of time may be available under the provisions of 37 CFR 1  SIX (6) MONTHS from the mailing date of this communication.  period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by statil  reply received by the Office Ister than three months after the mail  and patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION ,136(a). In no event, however, may a reply be tind of will apply and will expire SIX (6) MONTHS from ttb. cause the application to become ABANDONE lng date of this communication, even if limely filed	N. naly filed the mailing date of this communication. D (35 U.S.C. § 133). I, may reduce any		
Status		GET.	A		
	Responsive to communication(s) filed on 14	December 2005	NOTED		
•	•	is action is non-final.	~~		
-	Since this application is in condition for allow		esecution as to the merits is		
٠,٠	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Dispositi	on of Claims	• • • • • • • • • • • • • • • • • • • •			
·	Claim(s) <u>1-6</u> is/are pending in the application.				
•	4a) Of the above claim(s) is/are withdrawn from consideration.				
	Claim(s) is/are allowed.				
•	Claim(s) 1-6 is/are rejected.				
-	Claim(s) Is/are objected to.				
-	Claim(s) are subject to restriction and	or election requirement.			
Applicati	on Papers				
9)□	The specification is objected to by the Exami	ner.	•		
•	The drawing(s) filed on is/are: a) a		Examiner.		
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).		
	Replacement drawing sheet(s) including the corre	ection is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).		
11)[	The oath or declaration is objected to by the	Examiner. Note the attached Office	Action or form PTO-152.		
Priority (	ınder 35 U.S.C. § 119		·		
a)	<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
2) Notice 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mall Data <u>12/14/05</u> .	4) Interview Summary Paper No(s)/Mail D  8) 5) Notice of Informal F  6) Other:			

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#### **DETAILED ACTION**

#### Status of Claims

Claims 1-6 are pending.

The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

#### Information Disclosure Statement

Receipt of the Information Disclosure statement filed 12/14/05 is acknowledged and has been entered into the file. A signed copy of the 1449 is attached herewith.

### Claim Rejections - 35 U.S.C. § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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2. The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allgeier et al., (U.S.Patent number 6,376,714)('714').

Applicant claims a process of hydrogenating a dinitrile comprising contacting the dinitrile with hydrogen in the presence of a catalyst and a modifier at a pressure of about 2200 psig, wherein the catalyst comprises an element selected from the group consisting of Fe, Ru, Co and Ni and said modifier is selected from the group consisting of quaternary ammonium hydroxides, quaternary ammonium cyanides, quaternary ammonium fluorides, quaternary ammonium thiocyanides, quaternary phosphonium hydroxides, carbon monoxide and hydrogen cyanide.

Allggeier et al., discloses a process for hydrogenating a dinitrile, which comprises forming a reaction mixture that comprises an aliphatic or alicyclic dinitrile, hydrogen, a catalyst comprising Group VIII element and one or more modifiers selected from quaternary ammonium hydroxides, quaternary ammonium cyanides, quaternary ammonium fluorides, quaternary ammonium thiocyanides, quaternary phosphonium hydroxides. See the entire reference especially column 1, lines 63-67 bridging column 2, lines 1-7. It is noted that the reference operating temperature is between 50-150°C,

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which is an overlap between instant claim 2, which is drawn to a temperature range of about 50°C to 250°C. See column 4, lines 46-49.

Thus, the instant claims differ from '714' in the operational pressure of at least 2200 pslg.

This difference is not considered a patentable distinction and is thus, *prima facie* obvious absent a showing of unexpected results. There is no indication by way of evidence or otherwise in the specification that discloses the significance of the claimed temperature and pressure in the process as claimed herein.

The claimed temperatures and pressure are an obvious modification available to one of ordinary skill in the art. They are merely optimization of variables, which are not patentable absent unexpected result due to these variables, and hence are a difference in kind, and not merely in degree from that of the prior art. *In re Aller*, 105 USPQ 233, (1955). Also see *In re Boesch*, 205 USPQ, 215, (1980). The reference discloses the hydrogenation of a dinitrile to produce a product. The reference process and the instant process are essentially the same and will prepare essentially the same product(s). Thus, a slight difference in temperature and pressure may serve to differentiate the process from under 35 U.S.C. 102, but does not serve to remove the relied upon reference from under 35 U.S.C. 103.

Therefore, at the time of filing this application, one of ordinary skill in the art would thus, have been motivated to hydrogenate dinitriles with the required reactants of Aligeier et al., with the expectation that the resulting product(s) would maintain high yield and/or selectivity because precise indicated temperature and pressure are preferred.

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Accordingly, it would have been *prima facie* obvious to one of ordinary skill in the art to hydrogenate dinitriles as disclosed by the reference with the required reactants and maintenance elements because explicit temperatures and pressures are preferred and maintaining those variables has been expected to operate with a reasonable expectation of success. Hence, the instantly claimed process would therefore have been suggested to one of ordinary skill in the art absent a showing of unexpected results.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to E. Sackey whose telephone number is (571) 272-0704.

The examiner can normally be reached on Monday-Friday from 7:30 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph K. McKane, can be reached on (571) 272-0699. The fax phone number for this Group is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-1600.

EOS January 21, 2006

Supervisory Patent Examiner
Art Unit 1626, Group 1600

**Technology Center 1** 

DEC. 14. 2005 1:31PM

**INVISTA** 

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Substitute for land 1449/PTO	Application Number	10/719,535	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE AS THEIR) STORES AS THE COASSIST!	First Named Inventor	Alan M. Aligeler	
	Art Unit	Unknown / 126	
	Examiner Name	Unknown E. Sackers	
	Attornay Dacket Number	IPI1815USNA	

U. S. PATENT DOCUMENTS					
Examinar Inflats	Cite No.	Document Number	Publication Date MM-CD-YYYY	Name of Patentee or Appleant of Cited Document	Pegasi Columna, Lines, Where Relevant Passages or Relevant Figures Appear
包	<del>                                     </del>	U84 3,773,892	11-20-1973	L. Brake	
7	$\vdash$	US- 3,758,504	09-11-1973	alvens et al.	
		US 6,181,513	09-29-1892	S. B. Ziemecki	
_		US- 6,110,856	08-29-2000	Flick et al.	
_	<b>-</b>	US 6,258,745	07-10-2001	lonida et al.	
_	1	05- 6,576,714	04-23-2002	Aligeler et el.	
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WIPO 1998/047492	09-23-1999	DuPont		╙
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If you need assistance in completing the form, call 1-800-PTO-9189 (1-800-788-9189) and select option 2.

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